

[54] **HIGHLY CONCENTRATED
PREPARATIONS OF DOPA COMPOUNDS**

[75] Inventors: **Kazuhiro Tsukada; Wataru Kato,**
both of Hiromachi, Japan

[73] Assignee: **Sankyo Company, Limited, Tokyo,**
Japan

[21] Appl. No.: **262,065**

[22] PCT Filed: **Jul. 2, 1979**

[86] PCT No.: **PCT/JP79/00174**

§ 371 Date: **Mar. 4, 1980**

§ 102(e) Date: **Sep. 17, 1979**

[30] **Foreign Application Priority Data**

Jul. 4, 1978 [JP] Japan 53-81285

[51] Int. Cl.³ **A01N 37/13**

[52] U.S. Cl. **424/273 R; 424/274;**
424/319

[58] **Field of Search** 562/460; 424/319, 273 R,
424/274

[56] **References Cited**

U.S. PATENT DOCUMENTS

3,911,137 10/1975 Miki et al. 424/319
4,321,264 3/1982 Vickers 424/319

Primary Examiner—Bernard Helfin

Attorney, Agent, or Firm—Frishauf, Holtz, Goodman &
Woodward

[57] **ABSTRACT**

A highly concentrated aqueous composition of a dopa which comprises a dopa and at least one amino acid selected from the group consisting of methionine, proline, hydroxyproline, serine, threonine, valine, arginine, lysine, histidine and ornithine. Said composition having a concentration of said amino acid of 1–300 mg per ml of said aqueous solution of a dopa compound.

16 Claims, No Drawings